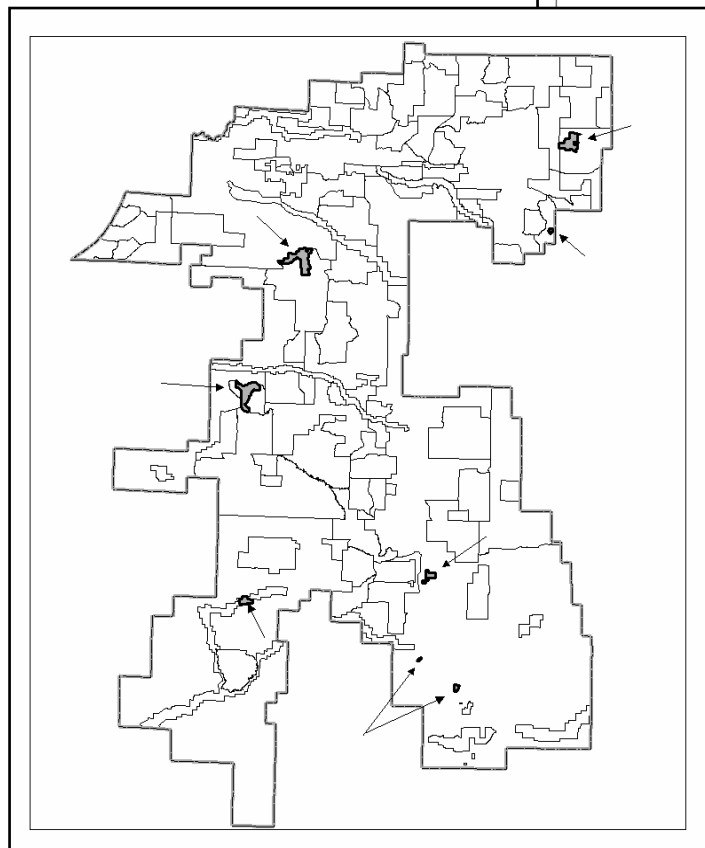
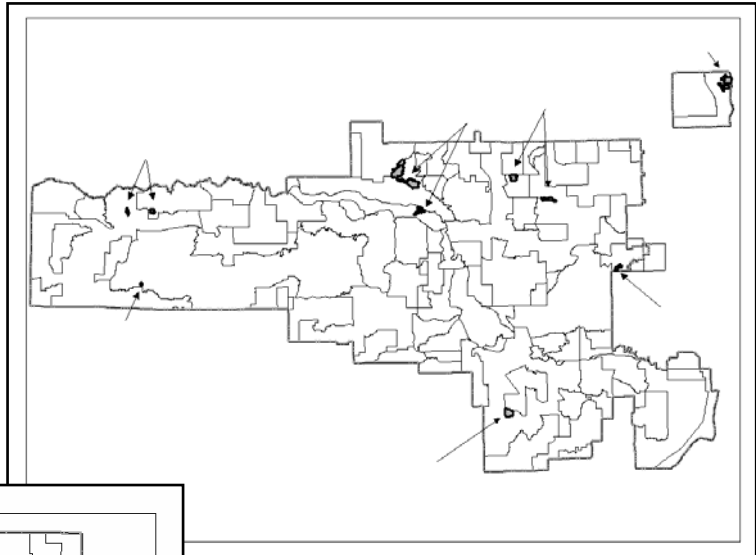


## Management Area 9.1 – Candidate Research Natural Areas

### **Maps:**

Shaded area depicts Management Area 9.1.

**Figure III-21. Management Area 9.1 on the Huron National Forest.**



**Figure III-22. Management Area 9.1 on the Manistee National Forest.**

***Purpose:***

Lands in holding for candidate Research Natural Areas until establishment record and environmental documentation is completed for designation. Management activities provide for Research Natural Area attributes and values.

***Landscape Description:***

This area contains approximately one percent of all National Forest System lands on the Huron-Manistee National Forests.

Candidate Research Natural Areas occur throughout the Huron-Manistee National Forests and are listed in Table III-15.

**Table III-15. Candidate Research Natural Areas on the Huron-Manistee National Forests.**

<b>Candidate Research Natural Area</b>	<b>Location</b>
Bear Swamp (includes Yonker's Meadow)	Manistee National Forest
Big South (includes Whelan Lake)	Manistee National Forest
Black River Complex	Huron National Forest
Blockhouse Swamp/Creek	Huron National Forest
Brandybrook	Manistee National Forest
Hunter's Lake	Huron National Forest
Loon Lake	Manistee National Forest
Loud Creek	Huron National Forest
McDonald Creek Forest	Huron National Forest
McMaster's Bridge Bog	Huron National Forest
North Branch White River	Manistee National Forest
O'Brien Lake Forest and Swamp	Huron National Forest
Pearl Lake	Manistee National Forest
Toft Lake	Manistee National Forest
South Branch (Foley) Bog	Huron National Forest
South Olga Bog	Manistee National Forest
Trout Lake Swamp	Huron National Forest
Vaughn Lake	Huron National Forest

***Goals and Objectives and Desired Future Condition:*****Goals and Objectives:**

- Maintain the characteristics of each candidate Research Natural Area for which they were identified.
- Recreation in the area such as hiking, hunting, camping and fishing will not be encouraged.

- Research and monitoring that aids the protection and management of populations of endangered, threatened, sensitive or rare species will be encouraged.
- Develop an establishment plan.

### Desired Future Condition:

Management direction for candidate Research Natural Areas will be the same as Research Natural Areas.

There are approximately 5,600 acres of designated old growth in this management area.

### Standards and Guidelines:

#### 1900 PLANNING

##### I Vegetation Management

- |   |   |
|---|---|
| A Timber harvesting or wood gathering will not be allowed.  | G |
| B Removal of exotic species or encroaching vegetation will be permitted if the presence of such threatens the special values of the area. | G |
| C Cutting, but not removal, of trees that are safety hazards along roadsides will be permitted.   | G |
| D Do not allow fuelwood or other special forest products gathering.   | G |

#### 2000 NATIONAL FOREST RESOURCE MANAGEMENT

##### I Control

- |   |   |
|---|---|
| A Infestations of non-native invasive plant and animal species that threaten candidate Research Natural Area values will be controlled using appropriate integrated pest management techniques. | S |
|---|---|

#### 2200 RANGELAND MANAGEMENT

- |                                  |   |
|----------------------------------|---|
| I Grazing will not be permitted. | S |
|----------------------------------|---|

#### 2300 RECREATION, WILDERNESS AND RELATED RESOURCE MANAGEMENT

- |  |   |
|--|---|
| I Use of motorized vehicles or bicycles should not be allowed.               | G |
| II Use of the area by saddle, draft or pack animals is generally prohibited. | G |
| III Removal or use of live or dead vegetation will not be permitted.         | G |
| IV No new trails will be established in candidate Research Natural Areas.    | G |
| V Significant and unevaluated heritage cultural resources will be protected. | G |

#### 2600 WILDLIFE, FISH AND SENSITIVE PLANT HABITAT MANAGEMENT

- |  |   |
|--|---|
| I Reintroduction of extirpated species is permitted.   | G |
| II If endangered or threatened species are found, they will be protected and recovery plans will be implemented. | S |

## 2700 SPECIAL USES MANAGEMENT

- I Do not allow developed organizational camps. G
- II New facilities and new corridors for utility rights-of-way will not be established. Existing special uses may be allowed. G

## 2800 MINERALS AND GEOLOGY

- I Federal oil and gas leases will contain a no-surface-occupancy stipulation for candidate Research Natural Areas. s

## 3400 FOREST PEST MANAGEMENT

- I Protection from introduced and endemic insects, diseases, plants and animals will be allowed only when the special values of the area are threatened. Recommendations regarding the need for action will be made by the Forest Research Natural Area Coordinator and approved by the Forest Supervisor. s
- II Protection will follow existing Integrated Pest Management guidelines. G

## 4000 RESEARCH

- I The attributes defining the candidate Natural Research Natural Area will be protected until an evaluation is completed to determine its potential for establishment as a Research Natural Area. s
- II Collection of monitoring data and non-manipulative sampling is permitted. Activities such as clipping of vegetation, use of incremental borers, creating temporary shelter for instrumentation, flagging, permanent markers to relocate long-term plots and tree tagging may be allowed. G
- III All plant and animal specimens collected in the course of research conducted on National Forest System lands will be properly preserved and maintained within university or Federal agency herbaria and museums. When necessary, appropriate permits for collection will be obtained from state and federal agencies. Collection of endangered, threatened, or rare species will be conducted in accordance with State and federal laws. s

## 5100 FIRE MANAGEMENT

- I Suppression
  - A Minimize use of tractor plows, retardant, constructed helispots and wheeled vehicles. G

## 7300 BUILDINGS AND STRUCTURES

- I No new facilities of any kind will be allowed. s

## 7700 TRANSPORTATION SYSTEM

- I No new roads will be established. s